



## AMENDING APPROVAL

### PROVINCE OF ALBERTA

#### ***ENVIRONMENTAL PROTECTION AND ENHANCEMENT ACT*** **R.S.A. 2000, c.E-12, as amended.**

APPROVAL NO. ..... 134-03-03

APPLICATION NO. .... 013-134

EFFECTIVE DATE:..... May , 2004

EXPIRY DATE: ..... July 31, 2009

APPROVAL HOLDER ..... Custom Environmental Services Ltd.  
..... 7722 – 9 Street  
..... Edmonton, Alberta  
..... T6P 1L6  
.....

Pursuant to Division 2, of Part 2, of the *Environmental Protection and Enhancement Act*, R.S.A.2000, c.E-12, as amended, the approval for the following activity:

construction, operation and reclamation of a hazardous waste storage and hazardous recyclable storage and processing facility

is amended as per the attached terms and conditions.

Designated Director under the Act .....

Date Signed ..... May , 2004

## **TERMS AND CONDITIONS ATTACHED TO APPROVAL**

*Environmental Protection and Enhancement Act* Approval No. 134-03-00 is hereby further amended as follows:

1. The following is added after Subsection 1.1.2 (k):
  - 1.1.2 (k.1) "ICE Process" means the Internal Combustion Engine Process, and all subsequent equipment and processes as described in the amendment application entitled "Cogeneration of Electricity and Heat Using an Internal Combustion Engine (ICE) Fueled by Volatile Organic Compounds" submitted by Custom Environmental Services Ltd. to Alberta Environment, dated September 10, 2003, and all subsequent submissions thereof;
2. Subsection 1.1.2 (q) is repealed and replaced with the following:
  - 1.1.2 (q) "plant" means all buildings, structures, process and pollution abatement equipment, vessels, storage facilities, material handling facilities, roadways, pipelines, and other installations, and includes the land, located on Plan 782-0150, Block 3, Lot 7 and Plan 802-2334, Block 4, Lot 1 that is being used in connection with the Edmonton plant;
3. The following is added after Subsection 1.1.2 (r):
  - 1.1.2 (r.1) "quarter year" means a time period of three consecutive months designated as January, February and March; or April, May and June; or July, August and September; or October, November and December;
4. The following is added after Subsection 4.3.40:

### **INTERNAL COMBUSTION ENGINE (ICE) PROCESS**

- 4.3.41 The approval holder is permitted to use only the materials listed in Appendix V of the ICE Process Application, received under separate cover dated March 23, 2004, within the ICE Process vacuum vessel, unless otherwise authorized in writing by the Director.
- 4.3.42 The approval holder is not permitted to use any wastes in the ICE Process vacuum vessel that may contain halogenated organic compounds, halogenated solvents, mercury, chlorinated substances, sulphur compounds or polychlorinated biphenyls.
- 4.3.43 The ICE Process as described in the ICE Process Application is not considered to be a treatment process for the purposes of this approval, as it does not remove total VOC. Therefore, the approval holder shall ensure that residuals from the ICE Process be managed in accordance with section 4.3.14 of this approval.

## **TERMS AND CONDITIONS ATTACHED TO APPROVAL**

### **MONITORING**

4.3.44 The approval holder shall monitor the materials being processed through the ICE Process by taking a representative sample of the process material:

- (a) every time a new waste stream is registered;
- (b) every time a waste generator alters their process in any way;
- (c) notwithstanding the above, at least once every quarter year per generator, unless otherwise authorized in writing by the Director.

The representative samples shall be analyzed for Total BTEX and Tox at a laboratory accredited by the Standards Council of Canada for the specific parameters analyzed, or at a laboratory accredited for the specific parameters analyzed, by an organization designated by the Standards Council of Canada to provide accreditation.

4.3.45 The approval holder shall monitor the combustion of the fuel in the ICE Process by measuring the temperature change pre- and post-catalytic converter, and shall provide estimated BTU consumption, at 1-hour intervals.

4.3.46 The approval holder shall monitor the mass of VOC processed through the ICE Process via mass balance calculation, as described in the ICE Process Application, on a daily basis.

4.3.47 The approval holder shall monitor emissions of carbon monoxide, carbon dioxide, oxygen and total hydrocarbons one time per day once the ICE Process has achieved its steady state operating temperature and vacuum.

4.3.48 If the approval holder voluntarily monitors for any additional parameters, the monitoring results shall be submitted to the Department.

### **REPORTING**

4.3.49 The approval holder shall submit a monthly report containing the following information about the operation of the ICE Process:

- (a) Total BTEX and Tox results collected and an explanation as to why the tests were performed (i.e., new waste stream registered, waste generator process altered, quarter year testing requirement);
- (b) hourly temperature measurements pre- and post-catalytic converter;
- (c) hourly estimated BTU consumption;

## **TERMS AND CONDITIONS ATTACHED TO APPROVAL**

- (d) daily mass of VOC processed in the ICE Process and the values used in the mass balance equation to determine the daily mass;
  - (e) daily emissions of carbon monoxide, carbon dioxide, oxygen and total hydrocarbons that were measured once the ICE Process has achieved its steady state operating temperature and vacuum;
  - (f) any additional information gathered voluntarily; and
  - (g) any other information as requested in writing by the Director.
- 4.3.50 The monthly report referred to in 4.3.49 shall be submitted to the Director in writing, within 30 days following the month in which the information was collected.

DATED May, 2004

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DESIGNATED DIRECTOR UNDER THE ACT